



USER MANUAL

(317) 274-3942

Web: continuousassurance.org

App: www.mir-swamp.org

Twitter: [@swampteam](https://twitter.com/swampteam)

Technical Support

The SWAMP offers 24/7 support 365 days a year. Following is contact information for the SWAMP:

- Dial (317) 274-3942 (24/7/365)
- Email: support@continuousassurance.org

To create a support ticket, go to <https://ticket.continuousassurance.org> or email support@continuousassurance.org

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Preface

This document guides selected users to successfully use the Software Assurance Marketplace (SWAMP).

The SWAMP is state-of-the-art software designed to serve as an open resource for software developers, assurance tool developers and researchers who wish to perform continuous assurance (CSwA) testing in a safe, secure environment.

The SWAMP is funded by the Department of Homeland Security, and directed by academic experts in high-throughput computing, identity management, and security from the following organizations: the Morgridge Institute for Research, the National Center for Supercomputing Applications at the University of Illinois at Champagne-Urbana, the Center for Applied Cybersecurity Research at Indiana University and the University of Wisconsin-Madison.

Introduction to the Software Assurance Marketplace (SWAMP)

The SWAMP is a national, no cost resource for software assurance (SwA) technologies, used across research institutions, non-governmental organizations and civilian agencies and their communities as both a research platform and a core component in the software development life-cycle.

It is our vision that widespread adoption of the SWAMP services will lead to a more secure and safer software ecosystem.

The Software Assurance Marketplace (SWAMP) channels the mission of the Department of Homeland Security Science and Technology Directorate's (DHS S&T) Cyber Security Division by:

- Developing and leveraging technologies, tools and techniques to defend and secure current systems to better protect critical infrastructures against attacks from our adversaries,
- Facilitating technology transition through a marketplace approach where a collection of innovative technologies can be harnessed by the community, and
- Providing a collaborative research environment by which DHS customers, agencies of the U.S. government, academia, private industry and international partners can exchange technical and research ideas to help advance software security and quality improvements.

The SWAMP may be used without cost by open-source, for profit, and non-profit organizations to test software for vulnerabilities and/or security risks. The accessibility of the SWAMP allows users at all levels to engage in the software development life-cycle. A user can upload his/her Software Package and/or Assessment Tool to the SWAMP for SwA testing. At launch, users will have access to over 100 Software Packages on the most popular Platforms (operating systems).

The SWAMP protects your intellectual property and personally identifiable information. You control access to your Software Packages, Assessment Tools, and software Assessment Results.

In the future, the SWAMP will offer the most frequently requested Software Packages, Software Assessment Tools, and Platforms.

The SWAMP currently provides the following software assurance services:

1. For software written in one of the top three programming languages:
 1. Java
 2. C
 3. C++
2. For assessments using one or more most popular open-source static code analysis tools. Specifically:
 1. FindBugs ~ On any supported Linux operating system supporting JVM 1.7.0_17 or greater
 2. PMD ~ On any supported Linux operating system supporting JVM 1.7.0_17 or greater
 3. Clang Static Analyzer ~ C/C++ for any supported Linux operating system
 4. Cppcheck ~ C/C++ for any supported Linux operating system
 5. Gcc ~ C++ compiler
3. For software that runs on one or more of these popular Platforms (operating systems):
 1. Red Hat Enterprise Linux 6.4 32-bit
 2. Red Hat Enterprise Linux 6.4 64-bit
 3. Fedora 18 64-bit

4. Fedora 19 64-bit
5. Ubuntu 12.04.2 64-bit
6. Debian 7.0 64-bit
7. Scientific Linux 5.9 32-bit
8. Scientific Linux 5.9 64-bit
9. Scientific Linux 6.4 64-bit

Part 1: Registration

Accessing the SWAMP

The SWAMP is a web based software application. You can run the SWAMP using most modern web browsers. We recommend the following:

- Chrome 7.0 or later
- Firefox 4.0 or later
- IE 10.0 or later
- Safari 5.0 or later
- Opera 12.0 or later

To use the SWAMP, open up your web browser and go to: <https://www.mir-swamp.org>

The screenshot shows the SWAMP website homepage. At the top is a dark navigation bar with the SWAMP logo and links for About, Contact, and Help. Below this is a large header area featuring a gear icon with 'CONTINUOUS ASSURANCE' text and the 'SWAMP' logo with 'SOFTWARE ASSURANCE MARKETPLACE' underneath. The main content area is titled 'Welcome to the SWAMP'. On the left is a login form with fields for 'SWAMP Username' and 'SWAMP Password', and buttons for 'Sign In' and 'Sign Up'. Below the form are links for 'Help, I forgot my password' and 'Help, I forgot my username'. To the right of the form is a 'What is the SWAMP?' section with a paragraph describing the marketplace. Below this are three boxes: 'Who uses the SWAMP?', 'Why use the SWAMP?', and 'How to use the SWAMP?', each with a 'Read More »' link. At the bottom, there is a copyright notice for 2014 Software Assurance Marketplace, Morgridge Institute for Research, and a small SWAMP logo.

Registering with the SWAMP

In order to access the SWAMP, a user registration form must be submitted and will require some personally identifiable information. You may have more than one SWAMP user account. A different email address or login identifications will be needed for each additional user account that is created. You may use the same email address and personally identifiable information in additional SWAMP user accounts that was used in your initial SWAMP user account.

Please note that your privacy is important to us. We will not provide your personal information to other organizations.

Follow the steps below to register with the SWAMP.

*****Note:** *Inappropriate use of the SWAMP that may or may not violate the **Acceptable Use Policy** will result in **deactivation** of your SWAMP user account. SWAMP reserves the right to terminate your user account at anytime without notice. If this happens, contact SWAMP at support@continuousassurance.org for any questions you may have, to request account reactivation, or to determine next steps to be able to access the SWAMP again.*

1. Navigate to **mir-swamp.org**. Select **Sign Up**.
2. Read and accept the “**Acceptable User Policy**.”

SWAMP [About](#) [Contact](#) [Help](#)

Be responsible when uploading confidential, proprietary, and/or sensitive data to SWAMP, when sharing such data with other SWAMP users, and when downloading data from SWAMP. Only upload proprietary data or intellectual property to SWAMP that you own or have rights to use. Only share data with other SWAMP users consistent with your rights to share such data. SWAMP will make best efforts to maintain the security of all uploaded data. SWAMP must not be used with classified data. Do not upload classified data to SWAMP.

4.0 Proper Acquisition and Licensing of Software

All software used on SWAMP systems must have been appropriately acquired and properly licensed. Possession or use of illegally copied software is prohibited. Likewise users shall not duplicate copyright-protected software or materials, except as permitted by the owner of the copyright. Some software installed on SWAMP resources may require special authorization in order to be used. Users must abide by the requirements for protecting it from misuse.

5.0 Termination/Access Restriction

SWAMP reserves the right, in its sole discretion, to terminate your access to the SWAMP Web Site and the related services or any portion thereof at any time, without notice.

Statement of Agreement

By clicking 'I Accept' it serves as acknowledgement that you have read and understand your responsibilities as a user. If you have questions, please contact the Help Desk at support@continuousassurance.org.

☐ I accept

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SWAMP

3. On the **User Registration Form**, type the requested information, and select **Submit**.

SWAMP

[About](#)

[Contact](#)

[Help](#)

User Registration Form

Given name *

Family name *

Preferred name *

Affiliation *

Email address *

Confirm email address *

SWAMP username *

SWAMP password *

Confirm SWAMP password *

Street Address 1 *

Street Address 2

PERSONAL INFO

ACCOUNT INFO

ADDRESS

Notes:

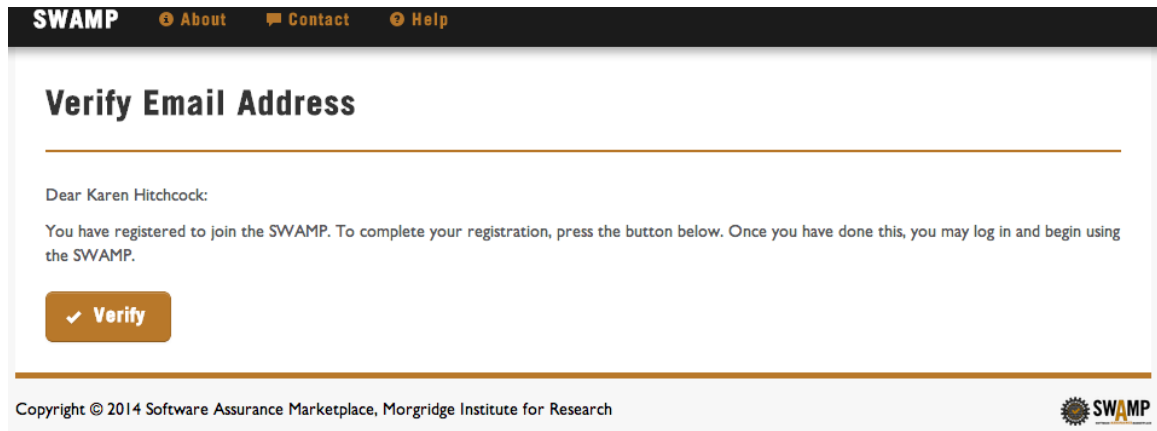
- All fields are required, with the exception of Street Address 2.
- For the Email address field, only email addresses from institutions are allowed to use the SWAMP. For example, Jack.Smith@morgridge.org. Freely available email accounts are prohibited, for example, Gmail, Hotmail, and Yahoo.
- For the SWAMP Username field, the system generates an anonymous username to protect the user's identity. The user can change the default username. The username may be recorded in log files.
- For the Phone Number field the country code will be inserted when the user selects "country." Type the area code, and the local number.

Password Requirements

A strong password is required to complete registration and for access to the SWAMP. The following are the **minimum acceptable** password requirements:

- At least ten characters
- At least one upper case alphabetic character
- At least one lower case alphabetic character
- At least one digit
- Symbols are encouraged
- Do not use words found in the dictionary
- The maximum password length is 200 characters

4. After submitting the registration form, you will be asked to verify your email address. Select **OK**.
5. You will receive a verification email. Within the email follow the instructions to verify your email address.



6. You have now completed the registration process and can sign in to the SWAMP.

*****Note:** *Inappropriate use of the SWAMP that may or may not violate the **Acceptable Use Policy** will result in **deactivation** of your SWAMP user account. SWAMP reserves the right to terminate your user account at anytime without notice.*

Forgotten Username/Password?

If you have forgotten your login information, navigate to the **Welcome to the SWAMP** screen and select **Help, I forgot my password** or **Help, I forgot my username**, depending on what information you are requesting. If you have forgotten your password, you will need to reset your password by following the steps below. If you have forgotten your username, a username request can be submitted by selecting, **Help, I forgot my username** and following the steps on the next page.

Resetting Your Password

1. Select **Help, I forgot my password**.

SWAMP

AboutContactHelp

CONTINUOUS
ASSURANCE

SWAMP

SOFTWARE ASSURANCE MARKETPLACE

Welcome to the SWAMP

What is the SWAMP?

The Software Assurance Marketplace (SWAMP) is a national marketplace that provides continuous software assurance capabilities to researchers and developers. Let the SWAMP help you to build better, safer, more secure code.

Who uses the SWAMP?
Read More »

Why use the SWAMP?
Read More »

How to use the SWAMP?
Read More »

SWAMP Username

SWAMP Password

Sign In


 or

Sign Up

Help, I forgot my password

Help, I forgot my username

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-
2. Please enter your SWAMP User Name or Email Address.
3. Select Request Reset.
4. An email will be sent to the email address associated with your SWAMP account containing a link to reset your password.
5. Once you receive this email please sign in and select the link contained in the email to reset your password.
6. Enter and confirm your new password and select **Submit**.

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SWAMP [About](#) [Contact](#) [Help](#)

Reset Password

Please enter your SWAMP username or email address below. By clicking the Request Reset button, an email will be sent to your account's email address containing a link to reset your password.

SWAMP Username: **or** **Email Address:**

SWAMP Username

SWAMP Password

or

Help, I forgot my password
Help, I forgot my username

The Software Assurance Marketplace (SWAMP) is a national marketplace that provides continuous software assurance capabilities to researchers and developers. Let the SWAMP help you to build better, safer, more secure code.

Who uses the SWAMP?
[Read More »](#)

Why use the SWAMP?
[Read More »](#)

How to use the SWAMP?
[Read More »](#)

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Reset Password

Dear John Smith: Please enter and confirm your new password:

New password: *

Confirm new password: *

***Fields are required**

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Requesting Your Username

1. Please enter your Email Address.
2. Select Request Username.

3. An email will be sent to the email address associated with your SWAMP user account with your current username.

Signing in to the SWAMP

At the **Welcome to the SWAMP** screen, sign in. If you are not yet a registered user of the SWAMP, you must first register. If you are registered, sign in with your username and password to access the SWAMP dashboard.

SWAMP [About](#) [Contact](#) [Help](#)

SWAMP
SOFTWARE ASSURANCE MARKETPLACE

Welcome to the SWAMP

What is the SWAMP?

The Software Assurance Marketplace (SWAMP) is a national marketplace that provides continuous software assurance capabilities to researchers and developers. Let the SWAMP help you to build better, safer, more secure code.

Who uses the SWAMP?
[Read More »](#)

Why use the SWAMP?
[Read More »](#)

How to use the SWAMP?
[Read More »](#)

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Updating Your SWAMP Account

In the event that your personal information changes, you have the ability to update your personal information in your profile at any time.


1. Sign in to the SWAMP.
2. From the **Home** screen select **My Account** to make changes to your account, such as editing your profile. Select **Edit Profile**.

SWAMP

About
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Help


Welcome, swamp1999

< Sign Out




Home
My Account

PROJECTS I OWN


My Project

+ Add New Project

PACKAGES I OWN


My Package

+ Add New Package

My Profile

Given name	Joe	PERSONAL INFO
Family name	Smith	
Preferred name	joe	
Affiliation	Morgridge Institute for Research	ACCOUNT INFO
Email address	joe.smith@morgridgeinstitute.org	
SWAMP username	swamp1999	ADDRESS
Street address 1	123 Main Street	
Street address 2		
City	Madison	PHONE
State	WI	
Postal code	53711	
Country	United States	
Country code	1	
Area code	(608)	
Phone number	123-4567	

Edit Profile
Request Ownership
Delete Account
Cancel


- On the **Edit My Profile** screen, make the desired changes and select **Submit**.

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My Account

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My Project

+ Add New Project

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My Package

+ Add New Package

Edit My Profile

Given name *	<input type="text" value="Joe"/>	PERSONAL INFO
Family name *	<input type="text" value="Smith"/>	
Preferred name *	<input type="text" value="joe"/>	
Affiliation *	<input type="text" value="Morgridge Institute for Research"/>	ACCOUNT INFO
Email address *	<input type="text" value="joe.smith@morgridgeinstitute.org"/>	
Confirm email address *	<input type="text" value="joe.smith@morgridgeinstitute.org"/>	ADDRESS
Street Address 1 *	<input type="text" value="123 Main Street"/>	
Street Address 2	<input type="text"/>	
City *	<input type="text" value="Madison"/>	
State *	<input type="text" value="WI"/>	
Postal code *	<input type="text" value="53711"/>	

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Changing Your Password

In the event you would like a new password or you feel that your current password might have become compromised at any time, you have the option to change your password.

1. To change your password, select **Change Password**.

The screenshot displays the SWAMP user interface. At the top, there is a navigation bar with the SWAMP logo, links for 'About', 'Contact', and 'Help', and a user greeting 'Welcome, swamp1999' with a 'Sign Out' button. On the left side, there is a sidebar with a '+ Add New Project' button, a 'PACKAGES I OWN' section containing a 'My Package' button, and another '+ Add New Package' button. The main content area contains a form for updating user information. The form includes fields for 'Confirm email address *' (filled with 'jsmith@continuousassurance.org'), 'Street Address 1 *' (filled with '123 Main Street'), 'Street Address 2' (empty), 'City *' (filled with 'Madison'), 'State *' (filled with 'WI'), 'Postal code *' (filled with '53711'), 'Country *' (filled with 'United States'), 'Country code *' (filled with '1'), 'Area code *' (filled with '608'), and 'Phone number *' (filled with '123-4567'). At the bottom of the form, there are three buttons: 'Submit' (with a checkmark icon), 'Change Password' (with a padlock icon and highlighted by a red rectangle), and 'Cancel' (with an 'x' icon). A note '*Fields are required' is visible at the bottom right of the form area. The footer of the page contains the copyright notice 'Copyright © 2014 Software Assurance Marketplace, Morgridge Institute for Research' and the SWAMP logo.

2. See Password Requirements on page 6 for more information about creating a strong password.
3. Type the new password and select **Submit**.

SWAMP About Contact Help Welcome, swamp1999 < Sign Out

Change My Password

New password *

Confirm new password *

*Fields are required

Home

My Account

PROJECTS I OWN

My Project

+ Add New Project

PACKAGES I OWN

My Package

+ Add New Package

Deleting Your SWAMP Account

If for any reason you would like to delete your SWAMP user account, you have the option to do so. By deleting your SWAMP user account, you will lose access to all information in your SWAMP user account. The information will be stored in the SWAMP databases. If in the future, you wish to use the SWAMP again, you may register for a new SWAMP user account at any time. You will need to fill out the **User Registration Form** to create a new user account (pages 4-8).

For access to your user account information, contact SWAMP at support@continuousassurance.org

1. To delete your SWAMP account, from any screen select **My Account**.

SWAMP


About

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Home

My Account

PROJECTS I OWN

My Project

+ Add New Project

PACKAGES I OWN

My Package

+ Add New Package

Recent Events

User Last Updated Profile

2014-02-10

You previously updated your profile.

User Last Logged In

2014-02-10

You previously logged in.

Project My Project Created

2014-02-06

Project My Test Project was created.

User Joined Project My Project

2014-02-06

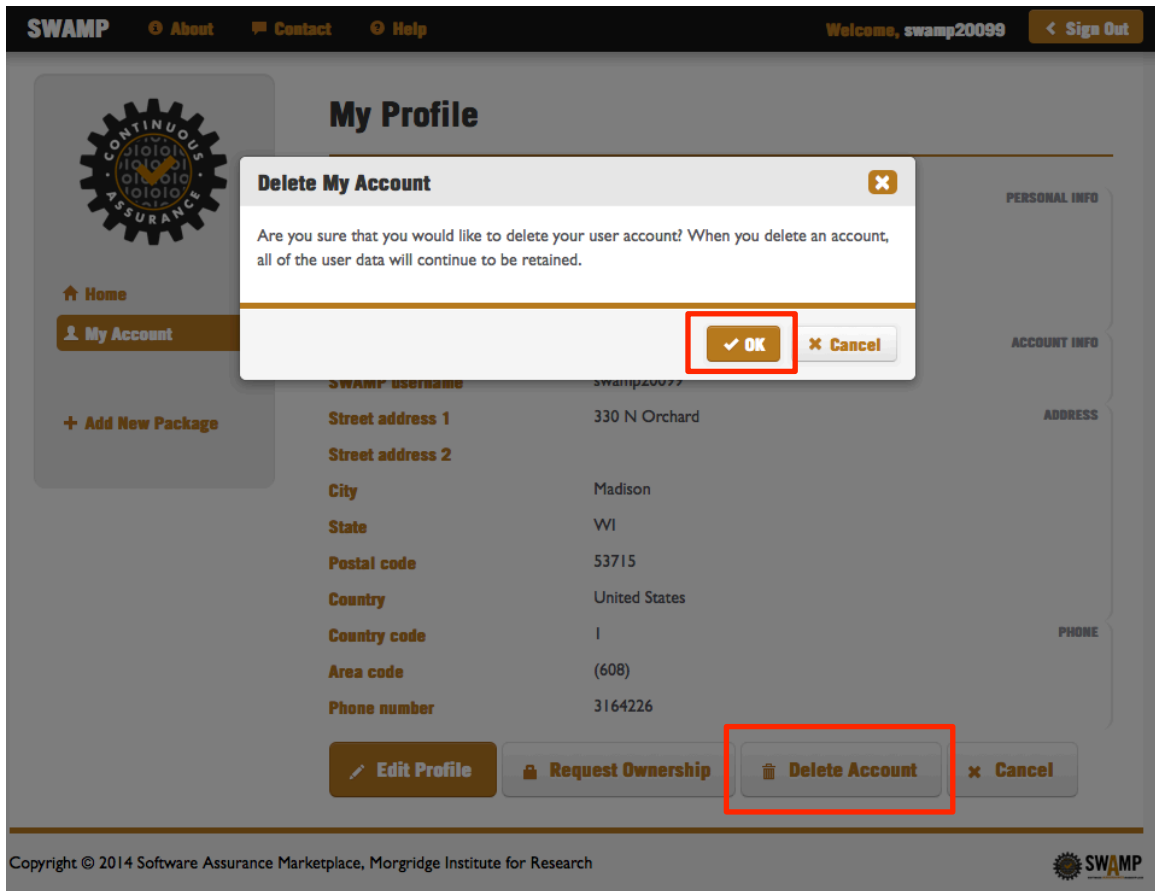
User Joe Smith joined project My Test Project.

User Registered

2014-02-06

You registered for the SWAMP.

- On the **My Profile** screen, select **Delete Account**.

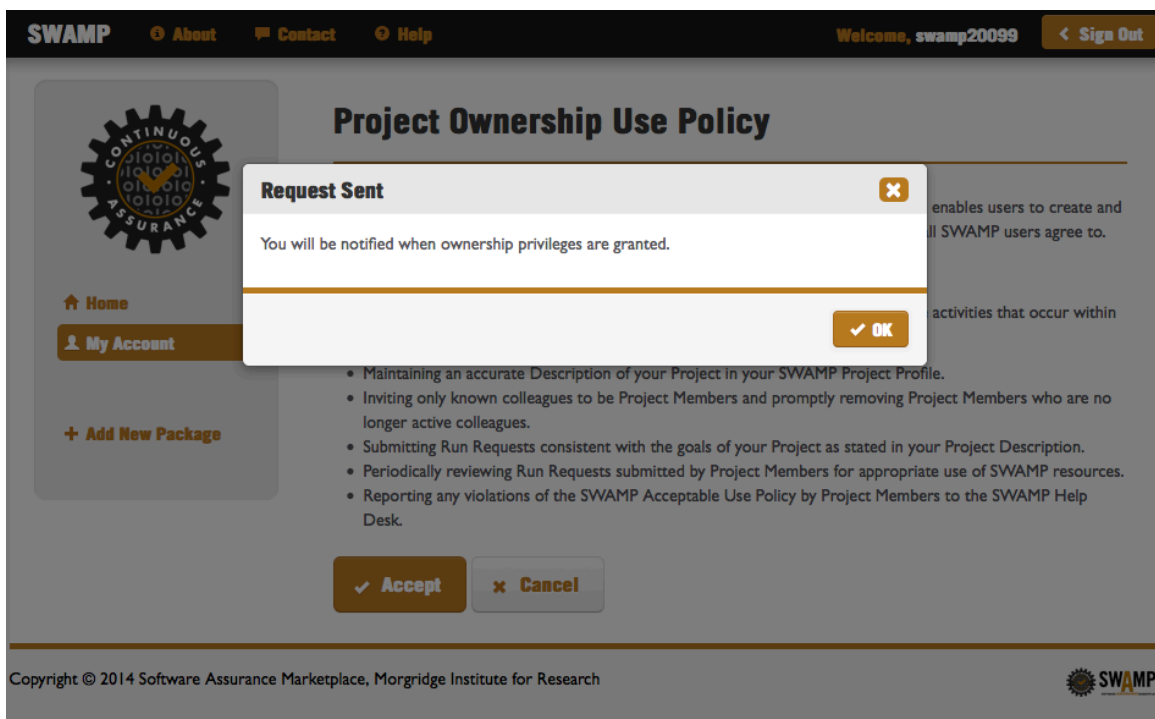


3. You will receive a prompt asking you to confirm the deletion. Select **OK** to delete your account or **Cancel** to cancel your request.

Part 2: Projects

Requesting Project Ownership

In an effort to ensure cybersecurity, users must request Project Ownership status in order to create new projects and conduct assessment runs. Follow the steps below to become an approved Project Owner. Once approved, you may create projects and invite others to join your Project. Project Members can create Assessment Runs, schedule Run Requests, and view Assessment Results. You only need to request Project Ownership status once.



SWAMP About Contact Help Welcome, swamp1999 Sign Out

Project Registration Form

Full name *

Short name (alias) *

Affiliation *

Assessment results viewer * CodeDX

Description *

+ Add New Project

My Package

+ Add New Package

Submit Cancel

*Fields are required

1. On the **Project Registration Form** screen, complete the following fields:

- Full name:** The full name is the long version of your Project's name used in Project descriptions.
- Short name:** The Project short name or alias is the short version of your Project's name and will appear in the sidebar.
- Affiliation:** Please include the company, university, or other organization with which your Project is affiliated.
- Assessment Results Viewer:** Choose the results viewer from the dropdown menu.
- Description:** Please provide a description of your Project to help a SWAMP administrator approve your Project.

2. Select **Submit**.

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CONTINUOUS ASSURANCE

Home

My Account

PROJECTS I OWN

My Project

Add New Project

PACKAGES I OWN

My Package

Add New Package

Project Registration Form

Full name *My First Project

Short name (alias) *My Project

Affiliation *Morgridge Institute for Research

Assessment results viewer *CodeDX

Description *This is my very first project.

Submit

Cancel

*Fields are required

3. In the left side bar, under **Projects I Own**, your new **Project** will appear.

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Home

My Account

PROJECTS I OWN

My Project

Add New Project

PACKAGES I OWN

My Package

Add New Package

Recent Events

User Last Updated Profile2014-02-10

You previously updated your profile.

User Last Logged In2014-02-10

You previously logged in.

Project My Project Created2014-02-06

Project My Test Project was created.

User Joined Project My Project2014-02-06

User Joe Smith joined project My Test Project.

User Registered2014-02-06

You registered for the SWAMP.

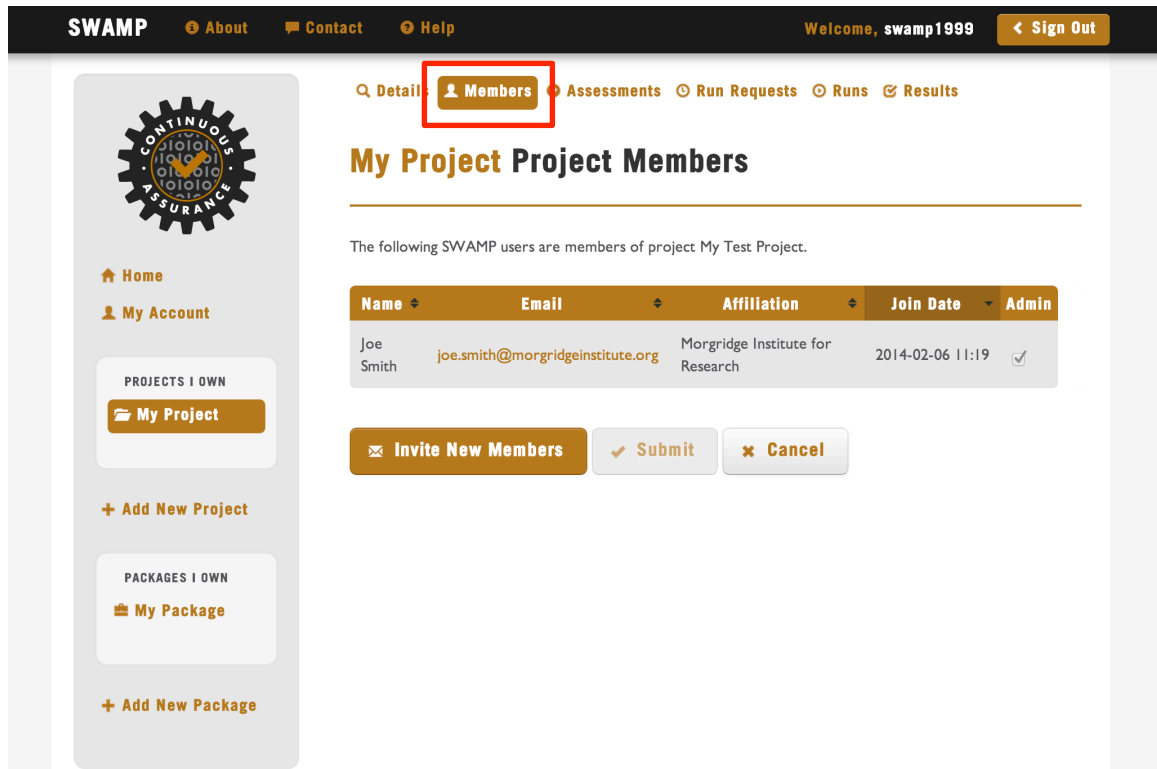
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Inviting Members to Your Project

Project Owners may invite others to join to their Project. Invitees do not need to be current users of the SWAMP, but must register with the SWAMP to become a Project Member. Project Members are able to create Assessment Runs, schedule Run Requests, and view Assessment Results. A Project Owner is automatically a Project Member.

1. The Home screen lists your project under PROJECTS I OWN.
2. Select a Project you own.
3. Select the **Members** tab.



The screenshot displays the SWAMP web application interface. The top navigation bar includes 'SWAMP', 'About', 'Contact', 'Help', and a user greeting 'Welcome, swamp1999' with a 'Sign Out' button. The left sidebar contains a 'CONTINUOUS ASSURANCE' logo and navigation links for 'Home', 'My Account', 'PROJECTS I OWN' (with 'My Project' selected), and 'PACKAGES I OWN' (with 'My Package' selected). The main content area shows the 'Members' tab selected, with a title 'My Project Project Members'. Below the title, it states 'The following SWAMP users are members of project My Test Project.' and displays a table of members.

Name	Email	Affiliation	Join Date	Admin
Joe Smith	joe.smith@morgridgeinstitute.org	Morgridge Institute for Research	2014-02-06 11:19	<input checked="" type="checkbox"/>

Below the table are three buttons: 'Invite New Members', 'Submit', and 'Cancel'.

4. The **Project Members** screen appears.

***Note: SWAMP automatically lists the Project Owner's name.*

5. Select **Invite New Members**.

SWAMP

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Home
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PROJECTS I OWN

My Project

+ Add New Project

PACKAGES I OWN

My Package

+ Add New Package

Details
Members
Assessments
Run Requests
Runs
Results

My Project Project Members

The following SWAMP users are members of project My Test Project.

Name	Email	Affiliation	Join Date	Admin
Joe Smith	joe.smith@morgridgeinstitute.org	Morgridge Institute for Research	2014-02-06 11:19	<input checked="" type="checkbox"/>

Invite New Members

Submit

Cancel

6. From the Project Invitations screen, select **Add Invitation**.

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My Project

+ Add New Project

PACKAGES I OWN

My Package

+ Add New Package

Details
Members
Assessments
Run Requests
Runs
Results

My Project Project Invitations

The following SWAMP users have previously been invited to project My Test Project.

Name	Email	Invitation Date	Status
Joe	joe.smith@morgridgeinstitute.org	2014-02-06 14:05	Accepted
Jane	jane.doe@morgridgeinstitute.org	2014-02-06 11:22	Pending

No new project invitations.

+ Add Invitation

Send

Cancel

7. Type the name and email of the person you are inviting.

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8. Continue to Add invitations for any others for whom you want to join your Project. Individuals do not have to be registered users of the SWAMP to be invited, but must register if they are going to be a part of the project.
9. Select **Send**.

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ASSURANCE

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PROJECTS I OWN

My Project

+ Add New Project

PACKAGES I OWN

My Package

+ Add New Package

DetailsMembersAssessmentsRun RequestsRunsResults

My Project Project Invitations

The following SWAMP users have previously been invited to project My Test Project.

Name	Email	Invitation Date	Status
Joe	joe.smith@morgridgeinstitute.org	2014-02-06 14:05	Accepted
Jane	jane.doe@morgridgeinstitute.org	2014-02-06 11:22	Pending

NameEmail

+ Add Invitation

Send

Cancel

The following SWAMP users have previously been invited to project My Test Project.

Name	Email	Invitation Date	Status
Joe	joe.smith@morgridgeinstitute.org	2014-02-06 14:05	Accepted
Jane	jane.doe@morgridgeinstitute.org	2014-02-06 11:22	Pending

Below the table, there is a form to add a new invitation:

Name	Email
Jill Johnson	jill.johnson@morgridgeinstitute.org

Buttons: + Add Invitation, Send, Cancel

10. You will receive a notification that invitations have successfully been sent to all new persons invited to join your Project.

Changing Project Member Status

A **Project Owner** may change the status of a **Project Member(s)** by navigating to the **Members** tab at the top of the page. A **Project Owner** may change a **Project Member's** status to **Admin** (Administrator) or remove the **Project Member** entirely from the project. **Admin** rights give a **Project Member** the additional capability to approve and invite new **Project Members**.

1. Select your **Project** under the **Projects I Own** tab in the left sidebar.
2. Select the **Members** tab at the top of the page
3. Select the checkbox under the **Status** column for **Project Member(s)** you wish to give **Admin** rights.

*****Note:** To remove a Project Member from the Project, the Project Member cannot have Admin rights.

Removing Admin (Administrator) Rights

As the needs of your **Project** change, you can add/remove Admin rights from individual Project Members. Remove Admin rights for the Project Member(s) by following the steps below.

1. Deselect the checkbox under the Admin column.
2. Select Submit
3. An X will appear next to Admin column for each Project Member that does not have Admin rights.
4. Select the X next to the Admin column to remove the Project Member from the Project.

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[Contact](#)
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Welcome, swamp1999
[Sign Out](#)



[Home](#)
[My Account](#)

PROJECTS I OWN

My Project

Add New Project

PACKAGES I OWN

My Package

Add New Package

Details
Members
Assessments
Run Requests
Runs
Results

My Project Project Members

The following SWAMP users are members of project My Test Project.

Name	Email	Affiliation	Join Date	Admin
John Doe	jdoe@continuousassurance.org	Morgridge Institute for Research	2014-01-01 06:00	<input type="checkbox"/> X
Jane Johnson	jjohnson@continuousassurance.org	Morgridge Institute for Research	2014-01-01 03:00	<input type="checkbox"/> X
Joe Smith	jsmith@continuousassurance.org	Morgridge Institute for Research	2014-01-01 00:00	<input checked="" type="checkbox"/>

[Invite New Members](#)
[Submit](#)
[Cancel](#)

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Part 3: Software Packages

Adding Your Software Package to the SWAMP

You may add and upload, edit or delete your Software Packages. A Software Package is a set of files containing related software or source code that needs to be assessed for vulnerabilities or insecurities.

Upload a Software Package

1. To add your own Software Package, select **Add New Package**.

The screenshot shows the SWAMP web application interface. The top navigation bar includes the SWAMP logo, links for About, Contact, and Help, a welcome message for user 'swamp1999', and a Sign Out button. The left sidebar contains a 'CONTINUOUS ASSURANCE' logo and several navigation buttons: Home, My Account, My Project, Add New Project, My Package, and Add New Package (which is highlighted with a red rectangle). The main content area is titled 'Recent Events' and lists several events with their dates and descriptions:

Event	Date
User Last Updated Profile	2014-02-10
You previously updated your profile.	
User Last Logged In	2014-02-10
You previously logged in.	
Project My Project Created	2014-02-06
Project My Test Project was created.	
User Joined Project My Project	2014-02-06
User Joe Smith joined project My Test Project.	
User Registered	2014-02-06
You registered for the SWAMP.	

2. Complete the fields on the form.

SWAMP About Contact Help Welcome, swamp1999 Sign Out

Add New Package

Name *

Archive * No file chosen supported formats

Version *

Package path *

Package type *

Description (public) * COMMENTS

Description (private)

Formats

.zip, .tar, .tar.gz, .tgz, .tar.bz2, .tar.xz, .tar.Z

Home

My Account

PROJECTS I OWN

My Project

+ Add New Project

PACKAGES I OWN

My Package

+ Add New Package

- Name:** Name of the Software Package.
- Version:** Revision of the uploaded software
- Archive:** Software Package to upload.
- Build script:** Script to run to build the package.
- Package path:** A required field and is the name of the top level directory that is produced when the archive file is unarchived.
- Package type:** This tells whether or not to invoke the build system to build the software from source code. From the dropdown menu choose C/C++, Java source code, or Java byte code.
- Build system:** Name of the system to use to build the software. For C/C++, Make, Make+Configure, CMake+Make or other may be used. For Java source, Ant, Ant+Ivy or Maven could be chosen.

Advanced settings

- Configure path:** The name of the directory relative to package-dir to change before running the configure command and is used only with C/C++ packages. *This is an optional field.*

Configure command: The name of a command to configure the package before building. If undefined/empty, no command is run. This is only used for C/C++ packages. *This is an optional field.*

Configure options: The name of options i.e. the arguments to pass to the configure command and is used only with C/C++. *This is an optional field.*

Build path: It is the path to the directory related to the source path to change to before building. *This is an optional field and is used for C/C++/Java.*

Build file: Used only with C/C++/Java source packages. It is the path to the build file related to the build path to use for the build systems except for the “Other” build command. For a build system type “Other”, the name of the file needs to be passed in the build options. This is only used with C/C++/Java source packages. *This is an optional field.*

Build command: If a build system other than the ones listed above has to be used, “Other” from the build system menu has to be selected and a build command to execute the package needs to be provided. This is optional and is used only C/C++ packages.

Build options: Name of the options and arguments to pass to the build command. Only for C/C++/Java source packages. *This is an optional field.*

Build target: The name of the file to be created by the build process. This target is passed to the build command. It is used only with C/C++/Java source. *This is an optional field.*

Description (public): A text description of the package that is visible to any user of the package.

Description (private): A text description of the package that is only visible to the owner of the project.

3. Select **Submit** to upload your Software Package. You will receive a notification once the upload is complete.

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Welcome, swamp1999

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CONTINUOUS
ASSURANCE

Home

My Account

PROJECTS I OWN

My Project

Add New Project

PACKAGES I OWN

My Package

Add New Package

Add New Package

Name *My New C/C++ Package

Archive *Choose Filec-package.zipsupported formats

Version *1.0

Package path *c-package

Package type *C/C++

BUILD SCRIPT

unzip c-package.zip
cd c-package
./configure
make

Build system

Configure+Make

C/C++ BUILD INFO

Advanced settings

Description (public) *

COMMENTS

Advanced settings

Configure path

CONFIG

Configure command

./configure

Configure options

Build path

BUILD

Build file

Build command

make

Build options

Build target

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[My Project](#)

+ Add New Project

PACKAGES I OWN

[My Package](#)

+ Add New Package

Add New Package

Name *

Archive *

Choose File

 supported formats

Version *

Package path *

Package type *

Java source

BUILD SCRIPT

unzip java-source-package.zip
cd java-source-package
ant

Build system

Ant

JAVA SOURCE BUILD INFO

Advanced settings

Description (public) *

COMMENTS

Advanced settings

Build path

Build file

Build options

Build target

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[My Account](#)

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My Project

+ Add New Project

PACKAGES I OWN

My Package

+ Add New Package

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Add New Package

Name *

My New Java Bytecode Package

✓

Archive *

Choose File

java-bytecode-package.zip

✓ supported formats

Version *

1.0

✓

Package path *

java-bytecode-package

✓

Package type *

Java bytecode

✓

BUILD SCRIPT

```
unzip java-bytecode-package.zip
cd java-bytecode-package
```

Class path *

JAVA BYTECODE INFO

Advanced settings

Advanced settings

Aux class path

Source path

zlib

Edit a Software Package

1. From the **Home** screen select a Software Package to edit.

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Home

My Account

PROJECTS I OWN

My Project

+ Add New Project

PACKAGES I OWN

My Package

+ Add New Package

Recent Events

User Last Updated Profile

2014-02-10

You previously updated your profile.

User Last Logged In

2014-02-10

You previously logged in.

Project My Project Created

2014-02-06

Project My Test Project was created.

User Joined Project My Project

2014-02-06

User Joe Smith joined project My Test Project.

User Registered

2014-02-06

You registered for the SWAMP.

2. On the **Package Profile** screen Select **Edit Package**.

The screenshot shows the SWAMP Package Profile screen. The top navigation bar includes the SWAMP logo, links for About, Contact, and Help, and a user greeting 'Welcome, swamp1999' with a Sign Out button. The sidebar on the left contains a 'CONTINUOUS ASSURANCE' logo and navigation links for Home, My Account, My Project, Add New Project, My Package, and Add New Package. The main content area is titled 'My Package Package Profile' and shows the package name 'My Package' and creation date '2014-02-06'. Below this, it states 'The following versions of this software package are available:' and displays a table with columns for Version, Description, and Date. The table contains one row for version 1.0. At the bottom of the main content area, there are three buttons: '+ Add Version', 'Edit Package' (highlighted with a red box), and 'Delete Package'.

Version	Description	Date
1.0	This is my test package.	2014-02-06 10:40

3. From this screen you can change the name of the Software Package. Type the revised name of the Software Package and select **Save**.

SWAMP About Contact Help Welcome, swamp1999 Sign Out

CONTINUOUS ASSURANCE

Home My Account

PROJECTS I OWN My Project

+ Add New Project

PACKAGES I OWN My Package

+ Add New Package

Details

Edit My Package Package Profile

Name * My Package

Save Cancel

*Fields are required

4. You will receive confirmation of the change. Select **OK**.

Adding, Updating or Deleting a Software Package Version

View or Add a Version of a Software Package

From the **Packages I Own** tab in the left side bar you can view your Software Package or add a new version of your Software Package.


1. Select the software package you wish to update, and then select **Add Version**.

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Home
My Account

PROJECTS I OWN

My Project

+ Add New Project

PACKAGES I OWN

My Package

+ Add New Package

Details

My Package Package Profile

Package name

My Package

Creation date

2014-02-06

The following versions of this software package are available:

Version	Description	Date
1.0	This is my test package.	2014-02-06 10:40

+ Add Version

Edit Package

Delete Package


2. From the **Add New Version** screen complete the fields on the form.

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Home
My Account

PROJECTS I OWN

My Project

+ Add New Project

PACKAGES I OWN

My Package

+ Add New Package

Details

Add New My Package Package Version

Archive *

Choose File

No file chosen

supported formats

Version *

Package path *

./configure

make

BUILD SCRIPT

Build system

Configure+Make

C/C++ BUILD INFO

Advanced settings

Description (public) *

COMMENTS

Archive: Software Package to upload.

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Version:	Revision of the uploaded software
Build script:	Script to run to build the package.
Package path:	A required field and is the name of the top level directory that is produced when the archive file is unarchived.
Package type:	This tells whether or not to invoke the build system to build the software from source code. From the dropdown menu choose C/C++, Java source code, or Java byte code.
Build system:	Name of the system to use to build the software. For C/C++, Make, Make+Configure, CMake+Make or other may be used. For Java source, Ant, Ant+Ivy or Maven could be chosen.

Advanced settings

Configure path:	The name of the directory relative to package-dir to change before running the configure command and is used only with C/C++ packages. <i>This is an optional field.</i>
Configure command:	The name of a command to configure the package before building. If undefined/empty, no command is run. This is only used for C/C++ packages. <i>This is an optional field.</i>
Configure options:	The name of options i.e. the arguments to pass to the configure command and is used only with C/C++. <i>This is an optional field.</i>
Build path:	It is the path to the directory related to the source path to change to before building. <i>This is an optional field and is used for C/C++/Java.</i>
Build file:	Used only with C/C++/Java source packages. It is the path to the build file related to the build path to use for the build systems except for the "Other" build command. For a build system type "Other", the name of the file needs to be passed in the build options. This is only used with C/C++/Java source packages. <i>This is an optional field.</i>
Build command:	If a build system other than the ones listed above has to be used, "Other" from the build system menu has to be selected and a build command to execute the package

needs to be provided. This is optional and is used only C/C++ packages.

Build options:

Name of the options and arguments to pass to the build command. Only for C/C++/Java source packages. *This is an optional field.*

Build target:

The name of the file to be created by the build process. This target is passed to the build command. It is used only with C/C++/Java source. *This is an optional field.*

Description (public): A text description of the package that is visible to any user of the package.

Description (private): A text description of the package that is only visible to the owner of the project.

Deleting a Software Package

1. To delete a Software Package, navigate to the **Package Versions** screen. Select the **X** next to the version you wish to delete.

The screenshot shows the SWAMP web interface. The top navigation bar includes 'SWAMP', 'About', 'Contact', 'Help', 'Welcome, swamp1999', and 'Sign Out'. The left sidebar contains a 'CONTINUOUS ASSURANCE' logo, 'Home', 'My Account', 'PROJECTS I OWN' with 'My Project', '+ Add New Project', 'PACKAGES I OWN' with 'My Package', and '+ Add New Package'. The main content area is titled 'My Package Profile' and shows package details: 'Package name: My Package' and 'Creation date: 2014-02-06'. Below this, it states 'The following versions of this software package are available:' and displays a table with columns 'Version', 'Description', and 'Date'. The table has one row for version '1.0' with description 'This is my test package.' and date '2014-02-06 10:40'. A red box highlights the 'X' icon next to this version. Below the table, there are three buttons: '+ Add Version', 'Edit Package', and 'Delete Package'. The 'Delete Package' button is highlighted with a red box.

Version	Description	Date
1.0	This is my test package.	2014-02-06 10:40

2. You will receive a prompt asking you to confirm the deletion. Select **OK** to delete or **Cancel** to cancel your request.

Software Package Sharing: Private, Public, or Protected

You can share your Software Packages in one of three modes:

- Private
- Public
- Protected

Private: Only the Project Owner can see Software Packages.

Public: Every SWAMP user can see Software Packages.

Protected: Project Owners can choose to share Software Packages with selected Projects and by default with members of the selected Project.

1. Navigate to the **Package Profile** screen.
2. Select the Software Package version you wish to link with the project you have chosen.

The screenshot displays the SWAMP web application interface. The top navigation bar includes the SWAMP logo, links for About, Contact, and Help, and a user greeting 'Welcome, swamp1999' with a Sign Out button. The main content area is titled 'My Package Profile' and shows details for a package named 'My Package', created on 2014-02-06. Below this, a table lists available versions of the package. The version '1.0' is highlighted with a red box. The table has columns for Version, Description, and Date. At the bottom of the table, there are buttons for '+ Add Version', 'Edit Package', and 'Delete Package'. The left sidebar contains a navigation menu with links for Home, My Account, Projects I Own (My Project), and Packages I Own (My Package).

Version	Description	Date
1.0	This is my test package.	2014-02-06 10:40

3. The **Package Sharing** screen appears.

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Home My Account

PROJECTS I OWN My Project

+ Add New Project

PACKAGES I OWN My Package

+ Add New Package

Details Sharing

My Package 1.0 Package Version Sharing

☐ Private
This package is private and can only be seen by the package owner.

☐ Public
This package is public and may be seen by any SWAMP user.

☒ Protected
This package is shared with members of the following projects:

Name	Affiliation
<input checked="" type="checkbox"/> My Test Project	Morgridge Institute for Research

Save Cancel

4. Select the radio button to choose what level of access to the Software Package you wish to give SWAMP users. When choosing Protected, select the Projects with which you wish to share your Software Package.
5. Protected must be chosen to share your Software Package version with a Project.
6. Select **Save**.

****Note: You do not have to be a Project Owner to upload a Package to the SWAMP.**

Part 4: Assessments

Managing Assessment Runs

After an Assessment Run has been scheduled, the Assessment Run will proceed through three states listed below:

1. **SCHEDULED:** The Scheduled state happens after you create a Run Request for the Assessment Run.
2. **Starting virtual machine:** The system is setting up the environment for the Assessment Run.
3. **Submitted to HTCondor:** The Assessment Run job has been submitted to HTCondor for execution.
4. **Performing Assessment:** The Assessment Run is being executed.
5. **Finished:** The scheduled Run Request has completed and Assessment Results are available.
6. **Finished with errors:** Your build has failed due to an incorrect Build System and/or incompatibilities between the Software Package and the selected Platform.
7. **Unable to run, queued or Unable to start VM:** There are incompatibilities between the chosen Platform and Software Package.

****Note:** You can view the details of each stage by selecting the current status under the **Status** field.

Add an Assessment Run

1. Select **Add Assessment**. From each dropdown menu:
 1. Choose a Software Package and its version.
 2. Choose an Assessment Tool and its version.
 3. Choose a Platform and its version.
2. Select **Save**.

The screenshot shows the SWAMP web application interface. The top navigation bar includes links for About, Contact, Help, and a Sign Out button. The main content area is titled 'Add My Project Assessment'. It features three sections: Package, Tool, and Platform. Each section has a dropdown menu for selection and a version selector. The 'Save' button is highlighted with a red box.

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Details Members **Assessments** Run Requests Runs Results

Add My Project Assessment

Package

Select a package to assess: Apache HTTP Select a version: Latest

Tool

Select a tool to perform the assessment: Clang Static Analyzer Select a version: Latest

Platform

Select a platform to use: Debian Linux Select a version: Latest

3. You will receive a confirmation message. Select **OK**.

Delete an Assessment Run

1. To delete an Assessment Run, navigate to the **Assessments** screen. Select the **X** to the right of the Assessment Run you wish to delete.

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PROJECTS I OWN

My Project

+ Add New Project

PACKAGES I OWN

My Package

+ Add New Package

Details
Members
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Run Requests
Runs
Results

My Project Assessments

The following assessments are currently defined for project My Test Project.

Package	Tool	Platform	
Apache HTTP latest	Clang Static Analyzer latest	Debian Linux latest	
Clojure latest	Findbugs latest	Fedora Linux latest	
Jenkins latest	PMD latest	Ubuntu Linux latest	

+ Add Assessment

2. Select **OK** to confirm that you wish to delete the Assessment Run.
3. You will receive a confirmation that the Assessment Run has been deleted. Select **OK**.

Schedule a Run Request

1. Select the **Run Request** tab and then select **Add Run Requests**.

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My Project Assessment Run Requests

The following assessment run requests are currently defined for project My Test Project.

Package	Tool	Platform	Schedule	
Apache HTTP latest	Clang Static Analyzer latest	Debian Linux latest	One-time	x
Clojure latest	Findbugs latest	Fedora Linux latest	One-time	x
Jenkins latest	PMD latest	Ubuntu Linux latest	Mondays	x

+ Add Run Requests

Edit Schedules

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HomeMy Account

PROJECTS I OWN

My Project

+ Add New Project

PACKAGES I OWN

My Package

+ Add New Package

- On the **Add Run Requests** screen, select the **checkbox** in front of the Run Request you wish to schedule, and then select **Schedule Run Requests**.

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My Account

PROJECTS I OWN

My Project

+ Add New Project

PACKAGES I OWN

My Package

+ Add New Package

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Add My Project Run Requests

Please select one or more assessments from the list below to run:

	Package	Tool	Platform
<input type="checkbox"/>	Apache HTTP latest	Clang Static Analyzer latest	Debian Linux latest
<input type="checkbox"/>	Clojure latest	Findbugs latest	Fedora Linux latest
<input type="checkbox"/>	Jenkins latest	PMD latest	Ubuntu Linux latest

Schedule Run Requests

Cancel

Run Request Scheduling Options

You can schedule Assessment Runs **One-time** or **On a repeated schedule**. Multiple runs can be scheduled simultaneously:

- **One-time:** A One-time Run Request assesses a selected Software Package only once.
- **On a repeated schedule:** With the repeated schedule option, the user could choose to schedule Assessment Runs on a regular basis such as daily, weekly or monthly at a selected time. This feature is helpful when the user edits the package regularly and wants to perform an Assessment Run with the same tool on the same platform every time the package is modified or updated.

One-time Runs

1. The schedule defaults to one-time on the **Schedule Run Request** screen.
2. If you want to schedule a recurrent Run Request, select **Edit Schedules**.
3. If you want to execute your Assessment Run as soon as possible, select **Submit**.

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Adding a New Run Request

1. From the **Run Request** screen, select **Edit Schedules**.
2. Select **Add Schedule**

The screenshot shows the SWAMP web application interface. The top navigation bar includes the SWAMP logo, links for About, Contact, and Help, and a user greeting 'Welcome, swamp1999' with a Sign Out button. The main navigation menu on the left includes Home, My Account, and sections for Projects I Own (My Project) and Packages I Own (My Package). The main content area is titled 'My Project Run Request Schedules' and shows a list of schedules for 'My Test Project'. The schedules are listed in a table with columns 'Name' and 'Description'. Below the table, there is a red-bordered button labeled '+ Add Schedule' and a 'Cancel' button.

Name	Description
One-time	Run once as soon as possible
Mondays	At 9:00 AM each Monday.
Fridays	At 5:00 PM each Friday.

+ Add Schedule x Cancel

3. On the **Define Run Request Schedule** screen, type a name for your schedule. For example, "Tuesdays at 8 a.m."

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HomeMy Account

PROJECTS I OWNMy ProjectAdd New Project

PACKAGES I OWNMy PackageAdd New Package

DetailsMembersAssessmentsRun RequestsRunsResults

Add My Project Run Request Schedule

Name *

Description *

Run Requests

No run requests have been defined.

*Fields are required

+ Add RequestSaveCancel

4. Type a description. For example, “Run the assessment every Tuesday at 8 a.m.”

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PACKAGES I OWNMy PackageAdd New Package

DetailsMembersAssessmentsRun RequestsRunsResults

Add My Project Run Request Schedule

Name *

Description *

Run Requests

No run requests have been defined.

*Fields are required

+ Add RequestSaveCancel

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5. Select **Add Request**.
6. In the **Type** dropdown menu select **Daily**, **Weekly**, or **Monthly**.
 - For Daily runs select the time.
 - For Weekly runs select the day and time.
 - For Monthly runs select the date and time.
7. Additional run times can be added to your Run Request schedule.

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Details Members Assessments **Run Requests** Runs Results

Add My Project Run Request Schedule

Name * Monday mornings ✓

Description * Each Monday morning at 9:00 a.m. ✓

Run Requests *Fields are required

Type	Day	Time
Weekly	Monday	09:00 AM

+ Add Request **Save** Cancel

8. Select **Save**.
9. You will receive a confirmation message. Select **OK**.

Viewing Run Request Schedules and Results

1. View your scheduled runs on the **Run Request Schedules** screen.

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PACKAGES I OWN

My Package

+ Add New Package

Details
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Results

My Project Run Request Schedules

The following schedules are available to project My Test Project:

Name	Description
One-time	Run once as soon as possible
Mondays	At 9:00 AM each Monday.
Fridays	At 5:00 PM each Friday.

+ Add Schedule

Cancel

2. Select the **Runs** tab to view the status of an Assessment Run.

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My Package

+ Add New Package

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My Project Assessment Runs

Filters

Date
Package
Tool
Platform
Limit
Reset

The following assessment runs are currently available for project My Test Project of any package using any tool on any platform limited to 50 items.

Date / Time	Package	Tool	Platform	Status
2014-02-07 14:57	Clojure 1.5.1	Findbugs 2.0.2 (FindSecurityBugs 1.1.0)	Fedora Linux 19 64-bit	Finished
2014-02-07 14:49	Apache HTTP 2.4.6	Clang Static Analyzer 3.3 RHEL6.4-64	Debian Linux 7.0 64-bit	performing assessment

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- When an Assessment Run is done, select the **Results** tab to view the Assessment Results. Above the **Details** column select **View** and the desired viewer to see the results of your assessment run.
- Results can be viewed in Native or Code Dx viewers.

*****Note:** For more information on Code Dx please visit <http://securedecisions.com/products/codedx/>

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Details Members Assessments Run Requests Run **Results**

My Project Assessment Results

Filters Date Package Tool Platform Limit Reset

The following assessment results are currently available for project My Test Project of any package using any tool on any platform limited to 50 items.

View

Date / Time	Package	Tool	Platform	Details
2014-02-07 14:57	Clojure 1.5.1	Findbugs 2.0.2 (FindSecurityBugs 1.1.0)	Fedora Linux 19 64-bit	

PMD 5.0.4 Report

2013-09-29 - 17:28:42

Summary

Files	Total	Priority 1	Priority 2	Priority 3	Priority 4	Priority 5
497	3398	45	139	2620	594	0

.home.vmrn.pegasus-source-4.2.2.src.edu.isi.pegasus.planner.parser.InvocationParser

Prio	Begin Line	Method	Description
3	15		Possible God class (WMC=283, ATFD=135, TCC=0.003952569169960474)
3	106		Private field 'm_forward' could be made final; it is only initialized in the declaration or constructor.
3	112		Private field 'm_reverse' could be made final; it is only initialized in the declaration or constructor.
3	117		Private field 'm_coarse' could be made final; it is only initialized in the declaration or constructor.
3	122		Private field 'm_fine' could be made final; it is only initialized in the declaration or constructor.
3	127		Private field 'm_log' could be made final; it is only initialized in the declaration or constructor.
3	172		When instantiating a SimpleDateFormat object, specify a Locale
2	172		When instantiating a SimpleDateFormat object, specify a Locale

- Above is an example of detailed results from an assessment run in the Native Viewer.

Projects

Logged in as swamp

version 1.0.4-SW-1 - 1/24/2014

CodeDx

A PRODUCT OF SECURE DECISIONS

Jenkins » Analysis Run 1

Created on 2/18/2014

Uploaded on 2/18/2014

37,452 total weaknesses

Options

Weakness Flow

Filters

Weakness count

37,452 / 37,452

Tool

PMD (100%)

Basic (0.3%)

Braces (9.4%)

Clone Implementation (< 0.1%)

Code Size (1.9%)

Comments (18.1%)

Controversial (18.6%)

Severity

Low (11.2%)

Medium (84.9%)

High (3.9%)

Codebase Location

Tool Overlaps

CWE

Status

New (100%)

Displaying all weaknesses

Bulk Operations for the 37,452 matching weaknesses

Select a status...

Generate Report...

Weaknesses

Id	Rule	Severity	Codebase Location	Status
68910	Avoid reassigning parameters	High	SequenceOutputStream.java	New
68909	Avoid reassigning parameters	High	SequenceOutputStream.java	New
68887	Avoid printing debug logs	High	FullDuplexHttpStream.java	New
68883	Avoid printing debug logs	High	FullDuplexHttpStream.java	New
68882	Avoid printing debug logs	High	FullDuplexHttpStream.java	New
68881	Avoid printing debug logs	High	FullDuplexHttpStream.java	New
68842	Avoid throwing raw exception types	High	Connection.java	New
68709	Avoid printing debug logs	High	CLI.java	New
68708	Avoid printing debug logs	High	CLI.java	New
68680	Avoid throwing raw exception types	High	CLI.java	New
68631	Avoid printing debug logs	High	CLI.java	New
68629	Avoid printing debug logs	High	CLI.java	New
68627	Avoid printing debug logs	High	CLI.java	New
68625	Avoid printing debug logs	High	CLI.java	New
68616	Avoid branching statements as the last p...	High	CLI.java	New
68598	Avoid printing debug logs	High	CLI.java	New

- Above is an example of an assessment run in the Code Dx viewer.

Cppcheck 1.61 Report

Summary

Total	error	warning	style	performance	portability	information
2	0	1	0	0	1	0

Severity	File	Line	Message
warning	snappy-c-master/sgverify.c	180	%d in format string (no. 4) requires a signed integer given in the argument list.
portability	snappy-c-master/sgverify.c	44	'p' is of type 'void *'. When using void pointers in calculations, the behaviour is undefined. Arithme

- Above is an example of results from an assessment run using the tool Cppcheck displayed in the Native viewer.

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clang version 3.3 (tags/RELEASE_33/final) Target: x86_64-unknown-linux-gnu Thread model: posix Report

Summary

Total	API	Dead store	Logic error	Memory Error	Security	Unix API
4	0	1	1	0	0	2

Category	File	Line	Message
Dead store	snappy-c-master/scmd.c	111	Value stored to 'err' is never read
Logic error	snappy-c-master/snappy.c	284	The left operand of '<' is a garbage value
Unix API	snappy-c-master/sgverify.c	40	Call to 'malloc' has an allocation size of 0 bytes
Unix API	snappy-c-master/sgverify.c	116	Call to 'malloc' has an allocation size of 0 bytes

- Above is an example of results from an assessment run using the tool Clang Static Analyzer displayed in the Native viewer.

gcc-warn v4.7.2 (Debian 4.7.2-5) Report

Summary

Total
152

Group	File	Line	Column	Message
warning	scmd.c	14	6	no previous prototype for 'usage'
warning	scmd.c	26	5	no previous prototype for 'match_suffix'
warning	scmd.c	28	21	conversion to 'int' from 'size_t' may alter its value
warning	scmd.c	32	2	ISO C90 forbids mixed declarations and code
warning	scmd.c	36	5	no previous prototype for 'open_output'
warning	scmd.c	44	19	conversion to 'int' from 'size_t' may alter its value
warning	scmd.c	46	22	conversion to 'size_t' from 'int' may change the sign of the result
warning	scmd.c	49	3	passing argument 2 of 'match_suffix' discards 'const' qualifier from pointer target type
warning	scmd.c	89	2	ISO C90 forbids mixed declarations and code
warning	scmd.c	95	3	passing argument 2 of 'match_suffix' discards 'const' qualifier from pointer target type
warning	scmd.c	107	2	ISO C90 forbids mixed declarations and code
warning	scmd.c	137	8	assignment discards 'const' qualifier from pointer target type
warning	scmd.c	145	29	comparison between signed and unsigned integer expressions
warning	scmd.c	14	6	function might be candidate for attribute 'noreturn'
warning	scmd.c	26	5	function might be candidate for attribute 'pure'
warning	snappy.c	79	3	cast discards '__attribute__((const))' qualifier from pointer target type

- Above is an example of results from an assessment run using the tool Gcc displayed in the Native viewer.

Filtering Assessment Runs and Results

As assessment runs and results are added, it may become difficult to quickly find the results or assessment runs you wish to view. Under the Runs tab and Results tab, there is the option to filter through your Assessment Runs or Results with up to 5 different filtering choices. You may choose more than one option. Each additional filter chosen will further restrict the set of returned results.

SWAMP users have the options to filter by **Date** (date A to date B), **Package**, **Tool**, **Platform**, and/or **Limit** (Maximum number of results to display). Follow the steps below to begin filtering.

1. Select the **Runs** tab or the **Results** tab
2. Select the first filtering option from the **Filters** tab above your Assessment Runs or Results
3. Select additional filter options as desired
4. Filtering results are automatically displayed below as each filter option is added or changed
5. Select the **X** to the right of the screen at anytime to remove a filtering option or filtering options
6. Select the **Reset** button from the **Filters** tab to reset all filtering options

The following screen shots reference the **Date** filter.

The screenshot shows the SWAMP web application interface. The top navigation bar includes 'SWAMP', 'About', 'Contact', 'Help', 'Welcome, swamp1999', and a 'Sign Out' button. The main navigation tabs are 'Details', 'Members', 'Assessments', 'Run Requests', 'Runs', and 'Results'. The 'Results' tab is selected.

The page title is 'My Project Assessment Results'. Below the title, there is a 'Filters' section with buttons for 'Date', 'Package', 'Tool', 'Platform', 'Limit', and 'Reset'. The 'Date' filter is highlighted with a red box. Below the 'Date' filter, a 'Date filter' dialog box is open, also highlighted with a red box. It contains 'From' and 'To' date input fields, both with placeholder text 'mm/dd/yyyy' and calendar icons. A red 'X' button is in the top right corner of the dialog.

Below the dialog, a message states: 'The following assessment results are currently available for project My Test Project of any package using any tool on any platform limited to 50 items.' A 'View' button with a dropdown arrow is to the right.

The results are displayed in a table with the following columns: 'Date / Time', 'Package', 'Tool', 'Platform', and 'Details'.

Date / Time	Package	Tool	Platform	Details
2014-02-24 16:01	Jenkins 1.517	PMD 5.0.4	Ubuntu Linux 12.04 LTS Lucid Lynx 64-bit	<input type="checkbox"/>
2014-02-18 16:00	snappy-c 6/17/2013	GCC current	Debian Linux 7.0 64-bit	<input type="checkbox"/>
2014-02-18 16:00	snappy-c 6/17/2013	cppcheck 1.61 Debian-7.0-64	Debian Linux 7.0 64-bit	<input type="checkbox"/>

SWAMP

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PROJECTS I OWN

Test

Add New Project

PACKAGES I OWN

Zlib2

JZlib

Zlib

Add New Package

Details
Members
Assessments
Run Requests
Runs
Results

Test Assessment Results

Filters

Date

Package

Tool

Platform

Limit

Reset

Date filter

From

mm/dd/yyyy

To

mm/dd/yyyy

January 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

The following tool on any

2014-02-04 15:13

Apache HTTP

Clang Static Analyzer

Debian Linux

Date /

Tool

Platform

Details

The following screen shot references the **Package** filter option.

SWAMP

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PROJECTS I OWN

My Project

Add New Project

PACKAGES I OWN

My Package

Add New Package

Details
Members
Assessments
Run Requests
Runs
Results

My Project Assessment Results

Filters

Date

Package

Tool

Platform

Limit

Reset

Package filter

Name

My Package

Version

Any

The following assessment results are currently available for project My Test Project of My Package using any tool on any platform limited to 50 items.

No assessment results currently exist.

View

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The following screen shot references the **Tool** filter option.

The screenshot shows the SWAMP web application interface. The top navigation bar includes links for About, Contact, and Help, along with a user greeting 'Welcome, swamp1999' and a 'Sign Out' button. The main navigation menu on the left includes 'Home', 'My Account', 'PROJECTS I OWN' (with 'My Project' and 'Add New Project'), and 'PACKAGES I OWN' (with 'My Package' and 'Add New Package'). The main content area is titled 'My Project Assessment Results'. Below the title, there are filter buttons: Date, Package, Tool (highlighted with a red box), Platform, Limit, and Reset. A 'Tool filter' dropdown is open, showing 'Name' as 'My Tool' and 'Version' as 'Any'. Below the filter, a message states: 'The following assessment results are currently available for project My Test Project of any package using My Tool on any platform limited to 50 items.' A 'View' button is present. At the bottom, it says 'No assessment results currently exist.'

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The following screen shot references the **Platform** filter option.

The screenshot shows the SWAMP web application interface, similar to the previous one, but with the 'Platform' filter selected. The 'Platform filter' dropdown is open, showing 'Name' as 'Debian Linux' and 'Version' as 'Any'. Below the filter, a message states: 'The following assessment results are currently available for project My Test Project of any package using any tool on Debian Linux limited to 50 items.' A 'View' button is present. Below the message, a table displays assessment results.

Date / Time	Package	Tool	Platform	Details
2014-02-18 16:00	snappy-c 6/17/2013	GCC current	Debian Linux 7.0 64-bit	<input type="checkbox"/>
2014-02-18 16:00	snappy-c 6/17/2013	cppcheck 1.61	Debian Linux 7.0 64-bit	<input type="checkbox"/>
2014-02-18 15:59	Apache HTTP 2.4.6	Clang Static Analyzer 3.3 RHEL6.4-64	Debian Linux 7.0 64-bit	<input type="checkbox"/>
2014-02-18 15:59	snappy-c	Clang Static Analyzer	Debian Linux	<input type="checkbox"/>

The following screen shot references the **Limit** filter option.

The screenshot shows the SWAMP web application interface. The top navigation bar includes links for About, Contact, and Help, along with a user greeting and a Sign Out button. The main content area is titled 'My Project Assessment Results'. Below the title, there are filter buttons for Date, Package, Tool, Platform, and Limit. The 'Limit' filter is highlighted with a red box. Below the filters, a 'Limit filter' dialog is open, also highlighted with a red box, showing 'Maximum # of results to display' set to 50. Below the dialog, a message states: 'The following assessment results are currently available for project My Test Project of any package using any tool on any platform limited to 50 items.' A 'View' button is located to the right of the message. Below the message is a table with the following data:

Date / Time	Package	Tool	Platform	Details
2014-02-24 16:01	Jenkins 1.517	PMD 5.0.4	Ubuntu Linux 12.04 LTS Lucid Lynx 64-bit	<input type="checkbox"/>
2014-02-18 16:00	snappy-c 6/17/2013	GCC current	Debian Linux 7.0 64-bit	<input type="checkbox"/>
2014-02-18 16:00	snappy-c 6/17/2013	cppcheck 1.61 Debian-7.0-64	Debian Linux 7.0 64-bit	<input type="checkbox"/>

Delete a Scheduled Run Request


1. To delete a scheduled **Run Request** select the check box to the right of the run.

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My Account

PROJECTS I OWN

My Project

+ Add New Project

PACKAGES I OWN

My Package

+ Add New Package

Details
Members
Assessments
Run Requests
Runs
Results

My Project Assessment Run Requests

The following assessment run requests are currently defined for project My Test Project.

Package	Tool	Platform	Schedule	
Apache HTTP latest	Clang Static Analyzer latest	Debian Linux latest	One-time	<a>×
Clojure latest	Findbugs latest	Fedora Linux latest	One-time	<a>×
Jenkins latest	PMD latest	Ubuntu Linux latest	Mondays	<a>×

+ Add Run Requests
Edit Schedules

- You will be asked to confirm the deletion. Select **OK** to delete the **Run Request** or **Cancel** to cancel your request.

Obtaining Universal Unique Identifier (UUID)

A UUID is assigned to each assessment run and helps support staff address a support ticket without requiring personal information. The UUID may be asked for when submitting a support ticket. To view the Execution Record of the Assessment Run, follow the steps below

- Select the **Runs** tab
- Select the link under the **Status** field

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PACKAGES I OWN

[My Package](#)

+ Add New Package

DetailsMembersAssessmentsRun RequestsRunsResults

My Project Assessment Runs

Filters

DatePackageToolPlatformLimitReset

The following assessment runs are currently available for project My Test Project of any package using any tool on any platform limited to 50 items.


Date / Time	Package	Tool	Platform	Status
2014-02-07 14:57	Clojure 1.5.1	Findbugs 2.0.2 (FindSecurityBugs 1.1.0)	Fedora Linux 19 64-bit	Finished
2014-02-07 14:49	Apache HTTP 2.4.6	Clang Static Analyzer 3.3 RHEL6.4-64	Debian Linux 7.0 64-bit	performing assessment

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PACKAGES I OWN

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DetailsMembersAssessmentsRun RequestsRunsResults

My Project Assessment Run

Assessment Run UUID0c6eac8e-1426-96da-c422-399065c65ba4

PackageClojure 1.5.1

ToolFindbugs 2.0.2 (FindSecurityBugs 1.1.0)

PlatformFedora Linux 19 64-bit

StatusFinished

Create date2014-02-07 14:51:09

Run date2014-02-07 14:51:26

Completion date2014-02-07 14:57:09

Execution duration00:05:43

Lines of code36619

OK

The following sections referring to Assessment Tools will be a future capability in the SWAMP and are currently under development.

Part 5: Assessment Tools

Managing Assessment Tools

A SWAMP user may upload Assessment Tool(s) he/she has developed and then test the Assessment Tool against publically available Software Packages or personally uploaded Software Packages.

Adding Assessment Tools

1. From left side panel on any screen, select **Add New Tool**.
2. Complete the fields on the form.

The screenshot shows the SWAMP web interface. The top navigation bar includes 'SWAMP', 'About', 'Contact', 'Help', 'Welcome, swamp1999', and a 'Sign Out' button. The left sidebar contains a 'CONTINUOUS ASSURANCE' logo and navigation links: 'Home', 'My Account', 'PROJECTS I OWN' (with 'My Project' and '+ Add New Project'), 'PACKAGES I OWN' (with 'My Package' and '+ Add New Package'), and '+ Add New Tool' (highlighted with a red box). The main content area is titled 'Add New Tool' and contains the following form fields:

- Name ***: Text input field.
- File ***: File upload button labeled 'Choose File' with the text 'No file chosen'.
- Version ***: Text input field.
- Tool directory**: Text input field.
- Tool executable ***: Text input field.
- Tool arguments**: Text input field.
- Description (public) ***: Large text area for public description.
- Description (private)**: Text input field for private description.

On the right side of the form, there are two sections: 'EXECUTION' and 'COMMENTS', each with a vertical scrollable area.

Name:

Name of the Assessment Tool.

File:

File to upload to SWAMP.

Version:

Revision of the uploaded Assessment Tool.

Tool directory:

Top level directory within the archive.

Tool executable:

Command to invoke tool.

Tool arguments: Arguments to pass to the tool.

Deployment command: The command used to install the Assessment Tool.

Description (public): Description of the Assessment Tool to those who have access to it.

Description (private): Private description and comments for the Owner of the Assessment Tool.

The screenshot shows the 'Add New Tool' interface in the SWAMP application. The top navigation bar includes the SWAMP logo, links for About, Contact, and Help, and a user greeting 'Welcome, swamp1999' with a 'Sign Out' button. The left sidebar contains a 'CONTINUOUS ASSURANCE' logo and navigation links: Home, My Account, My Project, and buttons to '+ Add New Project', '+ Add New Package', and '+ Add New Tool'. The main form area is titled 'Add New Tool' and contains several input fields, each with a green checkmark indicating successful validation:

- Name ***: My Tool
- File ***: Choose File mytool-1.0.tar
- Version ***: 1.0
- Tool directory**: mytool
- Tool executable ***: mytool
- Tool arguments**: (empty field)
- Description (public) ***: This is my software analysis tool. (with a green checkmark icon on the right)
- Description (private)**: (empty field)

On the right side of the form, there are two tabs: 'EXECUTION' and 'COMMENTS'.

3. Select **Submit** to upload your Assessment Tool. You will receive a notification once the upload is complete.

Editing an Assessment Tool


1. From the left side bar of any screen select an **Assessment Tool** to edit.

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PACKAGES I OWN
[My Package](#)
[+ Add New Package](#)

TOOLS I OWN

[My Tool](#)

[+ Add New Tool](#)

DetailsSharing

My Tool Tool Profile

Tool nameMy Tool

Creation date2014-02-18

The following versions of this software tool are available:

Version	Description	Date
1.0	This is my software analysis tool.	2014-02-18 14:15

+ Add Version

Edit Tool

Delete Tool


2. On the **Tool Profile** screen select **Edit Tool**.

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[My Project](#)
[+ Add New Project](#)

PACKAGES I OWN
[My Package](#)
[+ Add New Package](#)

TOOLS I OWN

[My Tool](#)

[+ Add New Tool](#)

DetailsSharing

My Tool Tool Profile

Tool nameMy Tool

Creation date2014-02-18

The following versions of this software tool are available:

Version	Description	Date
1.0	This is my software analysis tool.	2014-02-18 14:15

+ Add Version

Edit Tool

Delete Tool

3. From this screen you can change the name of the Assessment Tool. Type the name of the Assessment Tool and select **Save**.
4. You will receive confirmation of the change. Select **OK**.

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CONTINUOUS ASSESSMENT

Home My Account

PROJECTS I OWN

My Project + Add New Project

PACKAGES I OWN

My Package + Add New Package

TOOLS I OWN

My Tool + Add New Tool

Details Sharing

Edit My Tool Tool Profile

Name * My Tool

✓ Save ✕ Cancel

*Fields are required

Adding, Updating, or Deleting an Assessment Tool Version

Viewing or Adding a Version of an Assessment Tool

From the **Tool Profile** screen you can view your Assessment Tool or add a new version of your Assessment Tool. Follow the steps below to add a new version of your Assessment Tool.

1. Select **Versions**.

SWAMP About Contact Help Welcome, swamp1999 < Sign Out

Details Sharing

My Tool Tool Profile

Tool name My Tool

Creation date 2014-02-18

The following versions of this software tool are available:

Version	Description	Date
1.0	This is my software analysis tool.	2014-02-18 14:15

+ Add Version Edit Tool Delete Tool

2. On the **Tool Versions** screen select **Add Version**.
3. On the **Add New Tool** screen complete the fields on the form and select **Submit**.

Name: Name of the Assessment Tool.

File: File to upload to SWAMP.

Version: Revision of the uploaded Assessment Tool.

Tool directory: Top level directory within the archive.

Tool executable: Command to invoke tool.

Tool arguments: Arguments to pass to the tool.

Deployment command: The command used to install the Assessment Tool.

Description (public): Description of the Assessment Tool to those who have access to it.

Description (private): Private description and comments for the Owner of the Assessment Tool.

Deleting a Tool

1. To delete an Assessment Tool, from the left pane on any screen under **TOOLS I OWN**, select an Assessment Tool to delete.
2. On the **Tool Profile** screen select **Delete Tool** or the **X** to right side of the screen.

SWAMP About Contact Help Welcome, swamp1999 < Sign Out

Details Sharing

My Tool Tool Profile

Tool name My Tool

Creation date 2014-02-18

The following versions of this software tool are available:

Version	Description	Date
1.0	This is my software analysis tool.	2014-02-18 14:15

+ Add Version Edit Tool Delete Tool

3. You will receive a prompt asking you to confirm the deletion. Select **OK** to delete the Assessment Tool or **Cancel**.

Assessment Tool Sharing: Private, Public or Protected

You can share your Assessment Tools in one of three modes:

- Private
- Public
- Protected

Private: Only the Project Owner can see Assessment Tools.

Public: Every SWAMP user can see Assessment Tools.

Protected: Project Owners can choose to share Assessment Tool with selected Projects and by default with members of the selected Project.

1. Navigate to the **Tool Profile** screen.
2. Select the **Assessment Tool** version you wish to link with the project you have chosen.

3. Select **Sharing** tab at the top of the screen.

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CONTINUOUS ASSURANCE

Home My Account

PROJECTS I OWN My Project Add New Project

PACKAGES I OWN My Package Add New Package

TOOLS I OWN My Tool Add New Tool

Details **Sharing**

My Tool Tool Profile

Tool name My Tool
Creation date 2014-02-18

The following versions of this software tool are available:

Version	Description	Date
1.0	This is my software analysis tool.	2014-02-18 14:15

+ Add Version Edit Tool Delete Tool

4. The **Package Sharing** screen appears.

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CONTINUOUS ASSURANCE

Home My Account

PROJECTS I OWN My Project Add New Project

PACKAGES I OWN My Package Add New Package

TOOLS I OWN My Tool Add New Tool

Details **Sharing**

My Tool Tool Sharing

☐ Private This tool is private and can only be seen by the tool owner.
☐ Public This tool is public and may be seen by any SWAMP user.
☒ **Protected** This tool is shared with members of the following projects:

Name	Affiliation
<input checked="" type="checkbox"/> My Test Project	Morgridge Institute for Research

Cancel

5. Select the radio button to choose what level of access to the **Assessment Tool** you wish to give SWAMP users. When choosing Protected, select the Projects with which you wish to share your **Assessment Tool**.
6. Protected must be chosen to share your **Assessment Tool** version with a Project.
7. Select **Save**.

Part 6: Helpful Resources

Troubleshooting

Status field indicates, “**Finished with errors.**”

After an assessment run has been completed the status of the run will be displayed, if your run has “finished with errors” this means that the build has failed due to an incorrect Build System and/or the selected package is not compatible with the selected platform.

1. Check to make sure the correct **Build System** is chosen
2. Check to make sure the selected **Package** and **Platform** are correct and compatible
3. You can view the results of the failed build by selecting the **Native** viewer and downloading the .tar ball file.
4. The .txt file can then be viewed to determine where the assessment run failed.

Status field indicates, “**Unable to run, queued or Unable to start VM.**”

The selected **Package** and selected **Platform** are incompatible

1. Check to make sure the correct **Package** and **Platform** have been selected.
2. If an incompatible **Package** or **Platform** have been chosen, select the version of the **Package** you are trying to run an assessment on
3. Select **Edit** at the bottom of the screen to change the **Platform**
4. Change the **Platform** to the compatible **Platform**
5. Select **Save**

Submitting a Support Ticket

1. Obtain the Unique Universal Identifier (UUID) for a support ticket
2. Select the **Runs** tab
3. Select the link under the **Status** field
4. Navigate to <https://ticket.continuousassurance.org> to submit a support ticket

Glossary

Assessment Run: Specifies one Tool to assess one Software Package on one operating system Platform.

Assessment Tool: An Assessment Tool analyzes a Software Package to find weaknesses that could lead to security vulnerabilities. One person owns an Assessment Tool.

Continuous Software Assurance: A process that affirms software functions as intended, free from vulnerabilities intentionally or unintentionally inserted into the code. This is achieved through continuous assessments.

Execution Record: Displays statistics about the scheduled Assessment Run.

Owner: A User that has requested ownership privileges and has been vetted by a SWAMP Administrator, who owns a Project and/or Software Package, (Future Option: Assessment Tool).

Platform: The operating system environment in which an Assessment Run occurs.

Project: A person or group of people working together for a common purpose, for example to create better assessment tools, and/or to mitigate weaknesses in Software Packages.

Project Member: A person who has accepted an invitation to join a SWAMP project. Project Members are able to create Assessment Runs, schedule Run Request, and view Assessment Results.

Run Request: A request to execute one or more Assessment Runs as soon as possible after the requested time. Project Members can schedule Run Requests to occur daily, weekly, or monthly. Members can schedule Run Requests that are a combination of daily, weekly, or monthly times.

Software Package: A software component or system used by others.

User: A person granted permission to belong to the Software Assurance Marketplace. A SWAMP user must be a member of a project to use Assessment Tools, Platforms, and view Assessment Results.

Table 1. Compatibility of Platforms and Tools

	Tools				Clang Static Analyzer
	PMD	FindBugs	Cppcheck	Gcc	
Platforms					
Red Hat Enterprise Linux 6.4 32-bit	Yes	Yes	Yes	Yes	Yes
Red Hat Enterprise Linux 6.4 64-bit	Yes	Yes	Yes	Yes	Yes
Fedora 18 64-bit	Yes	Yes	Yes	Yes	Yes
Fedora 19 64-bit	Yes	Yes	Yes	Yes	Yes
Ubuntu 12.04.2 64-bit	Yes	Yes	Yes	Yes	Yes
Debian 7.0 64-bit	Yes	Yes	Yes	Yes	Yes
Scientific Linux 5.9 32-bit	Yes	Yes	Yes	Yes	Yes
Scientific Linux 5.9 64-bit	Yes	Yes	Yes	Yes	Yes
Scientific Linux 6.4 64-bit	Yes	Yes	Yes	Yes	Yes

*****Note: It is important to select the correct Platform when running an assessment. Selecting the incorrect Platform will generate false results.***